

KHRUSTALEV, I.K., dots.

Efficient shape of skips for coal mines with vertical shafts.
Izv.vys,uchob,zav.; gor.shur. no.1:109-115 '59.
(MIRA 13:1)

1. Sibirschiy metallurgicheskiy institut. Rekomendovana kafedroy
gornoy elektromekhaniki.
(Mine hoisting)

KHRUSTALEV, I.K., dots.

Performance of unbalanced skip hoisting equipment with
asynchronous electric drives. Izv.vys.ucheb.zav.; gor.zhur.
no.1:116-125 '59. (MIRA 13:1)

1. Sibirskiy metallurgicheskiy institut. Rekomendovana kafedroy
gornoj elektrotehniki.
(Hoisting machinery--Electric driving)

KHRUSTALEV, I.K.

Automatic skip hoist. Izv.Sib.otd.AN SSSR no.10:37-48 '59.
(MIRA 13:4)

1. Sibirskiy metallurgicheskiy institut, g. Stalinsk.
(Mine hoisting)

KHRUSTALEV, I.X., dotsent

Acceptable speed for the landing of skip hoisting machines
on the carriage of a coal loader. Izv. vys. ucheb. zav.;
gor. zhur. no. 11:187-192 '60. (MIRA 13:12)

1. Sibirskiy metallurgicheskiy institut imeni S. Ordzhonikidze.
Rekomendovana kafedroy gornoj elektrotehniki Sibirskogo
metallurgicheskogo instituta.
(Coal mines and mining--Equipment and supplies)
(Hoisting machinery)

KHRUSTALEV, I.K., dotsent

Mine resistances in the operation of hoists. Izv. vys. ucheb. zav.; gor. zhur. 5 no.1:165-169 '62. (MIRA 15:4)

1. Sibirskiy metallurgicheskiy kombinat imeni S. Ordzhonikidze
Rekomendovana kafedroy gornoy elekrotekhniki Sibirskego metallur-
gicheskogo instituta.

(Mine hoisting)

KHRUSTALEV, I.K., kand. tekhn. nauk

Profitability of skip hoisting equipment for hydraulic coal
mines. Trudy VNIIGidrourglia no.3:128-137 '63 (MIRA 18:2)

1. Sibirsckiy metallurgicheskiy institut.

KHRUSTALEV, I.K., dotsent; KUZNETSOV, N.Ye., dotsent; TURNAYEV, P.I., inzh.

Automatic drive of mine hoisting machines with electromagnetic
clutches. Izv. vys. ucheb. zav.; gor. zhur. 8 no.7:180-184 '65.
(MIRA 18:9)

1. Sibirskiy metallurgicheskiy institut imeni Ordzhonikidze.
Rekomendovana kafedroy obshchey elektrotekhniki Sverdlovskogo
gornogo instituta.

KHRUSTALEV, L.N.

Forecasting changes in the temperature regime of grounds
frozen for many years in a built-up territory. Mat k uch.
o merz. zon. zem. kory no. 9&13-28 '63 (MIRA 18:1)

BAKALOV, S.A.; BELOUSOV, V.P.; BRATSEV, L.A.; VODOLAZKIN, V.M.;
YEROSHENKO, V.N.; ZHUKOV, V.F.; LUBAN, S.A.; MARKIZOV, L.P.;
NADEZHDIN, A.V.; NOVIKOV, F.Ya.; PONOMAREV, V.D.; POTRASHKOV,
G.D.; ROZHDESTVENSKIY, S.I.; TROFIMOV, S.V.; FEL'DMAN, I.R.;
FOYSEL', D.O.; KHRUSTALEV, L.N.; CHURUKSAYEV, I.I.;
KONDRAT'YEVA, V.I., red.

[Theory and practice in the study of frozen ground in construction]
Teoriia i praktika merzlotovedeniia v stroitel'stve. Mo-
skva, Nauka, 1965. 187 p. (MIRA 18:4)

1. Moscow. Nauchno-issledovatel'skiy institut osnovaniy i pod-
zemnykh sooruzheniy. Severnoye otdeleniye.

KHRUSTALEV, L.N.

Permeability of clay soils in a layer of seasonal freezing and thawing
under in situ conditions. Trudy SOIL no.2:82-87 '62. (MIRA 17:1)

POTRASHKOV, G.D.; KHRUSTALEV, L.N.

Effect of the texture of thawed clay soils on their strength and
infiltration properties. Izv.Sib.otd.AN SSSR no.1:31-35 '61.
(MIRA 14:2)

1. Severnoye otdeleniye Instituta merzlotovedeniya im.V.A.Obrucheva
AN SSSR.
(Clay)

KHRUSTALEV, L.N.

Filtration characteristics of seasonally thawing loamy ground
in the Vorkuta region. Mat. k osn. uch. o merz. zon. zem.
kory no.7:157-163 '61. (MIRA 14:7)
(Vorkuta region--Frozen ground)
(Soil percolation)

GALAKTIONOV, A.T.; DENISOV, Yu.A.; KOPYTOV, G.T.; MASLOV, Yu.A.; NIKONOV, I.P.; PETUNIN, I.V.; KOCHIEVA, G.N.; KUZNETSOV, A.P.; LELEKO, N.M.; RAZIKOV, M.I.; SPESHKOV, V.V.; STEPANOV, B.V., STEPANOV, V.V.; kand. tekhn. nauk; SHELOMOV, B.Ye.; YUNYSHEV, G.P.; YES'KOV, K.A., dots., retsenzent; BAKSHI, O.A., dots., retsenzent; BEREZKIN, P.N., dots., retsenzent; PATSKEVICH, I.R., dots., retsenzent; RUDAKOV, A.S., dots., retsenzent; FIZHBEYN, N.B., inzh., retsenzent; ~~KHRUSTALEV, L.Ya.~~, inzh., retsenzent; KRUTIKHOVSKIY, V.G., inzh., red. BOBROV, Ye.I., kand. tekhn. nauk, red. DUGINA, N.A., tekhn. red.

[Welding handbook] Spravochnik rabocheego-svarshchika. Pod red. V.V. Stepanova. Moskva, gos. nauchno-tekhnicheskoye mashinostroit. lit-ry, 1960. 640 p. (Welding)

KHRUSTALEV, Leonid Yakovlevich; RAZIKOV, M.I., kand. tekhn. nauk,
retsenzent; DENISOV, Yu.A., inzh., red.; DUGINA, N.A., tekhn.
red.

[Automatic arc welding and hard facing] Avtomaticheskaya dugo-
vaya svarka i naplavka. Moskva, Mashgiz, 1961. 43 p. (Nauchno-
populiarnaia biblioteka rabochego-svarshchika, no.11)
(MIRA 15:3)

(Electric welding)

(Hard facing)

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KERUSTALEV, M. I., Candidate of Tech Sci (diss) -- "Fractionation of natural sands for concrete, using hydraulic classifiers". Moscow, 1959. 11 pp (Min Higher Educ USSR, Moscow Order of Labor Red Banner Construction Engineering Inst im V. V. Kuybyshev), 130 copies (KL, No 21, 1959, 117)

K H RUS TAL'EV, M. I.

SOV/98-59-7-21/22

10(4)
AUTHOR:
Title:
PERIODICAL:

Boringer, S.P., Chairman
Conference on Scientific Research in the Field of
Hydromechanics
Gidrotekhnicheskoye stroitel'stvo, 1959, Nr. 7, pp.
62-65 (USSR).
L.T. DIBOVES, Candidate of Technical Sciences (VIRUS) and Designer
High Strength Ferro-Concrete (VSH). "The Hydromechanical Fractionation of Natural Sand in the Preparation of Concrete." At the session on equipment the following papers were read: Engineer B.M. Shchurin (Gidroprojekt): "Special-Purpose and Design Detonators"; Engineer V.I. Mocco (Planning and Design Office of the Hydro-mechanization Trust of the Ministry of the Internal Affairs) "New Design of Explosive-Boron Types of Dismantling Detonators"; I.N. Borisevko, Candidate of Technical Sciences (IUD of the Academy of Sciences of the USSR); "The Lead-Mineral USCh". Engineer I.I. Kuzakov (The Lead-Mineral USCh): "Design of Detonators for Technical Explosives"; Candidate of Technical Sciences (VIRUS) and M.M. Tikhonov (VNIIG): "The Design of Detonators for Coal Sciences (DONGI); "The Loading of Heavy Materials into Transport Container by the Loading of the Detonator"; I.V. Zherzhevsky, Member of the Academy of Sciences of the Armenian SSR, "Theoretical Problems of Dismantling Detonators and Related Problems"; The Movement of I.I. Kuzakov, Doctor of Technical Sciences (VIRUS); I.I. Kuzakov, Doctor of Technical Sciences (VIRUS); A.I. Artyukh, and N.D. Zirov, I.A. Domanova, Doctor of Technical Sciences (VIRUS); I.M. Sazanov, I.V. Radomysky, Candidate of Technical Sciences (the Institute of Institute of Energetics of the Academy of Sciences of the American SSR); "The Influence of Turbulent Strains"; Prof. V.I. Tsvetkov, Doctor of Technical Sciences (Kabardino-Balkar State University); M.A. Kellmaner, Corresponding Member of the Academy of Sciences of the USSR; "The Theoretical and Practical Value of the Gravitational Theory of Illurian"; I.A. Shilin, Candidate of Technical Sciences; "Large-Diameter Pipes and Hydraulic Resistance in Large-Diameter Tubes"; A.N. Klimov, Candidate of Technical Sciences (VIRUS); K.P. Zatary (VUDNO), and S.I. Kornilov (IUD of the Academy of Sciences of the USSR); "Experiments in Water Supply in Conduit Pipes of Various Diameters"; V.S. Kozor, Candidate of Technical Sciences; "Resistance in Rough Open Rivers".

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Card 5/6

ASSOCIATION: (Conference Organizing Committee) Organized by
Provedeniya soveshchaniya

KHRUSTALEV, Mikhail Ivanovich, kand.tekhn.nauk, starshiy nauchnyy
strudnik; PERELOV, I.F., inzh., red.

[Using hydraulic classifiers in fractionating sand and removing
clayey particles] Fraktsionirovaniye peskov i udalenie iz nich
glinistykh chastits pri pomoshchi gidravlicheskikh klassifikatorov.
Moskva, Gosstroizdat, 1960. 35 p. (MIRA 13:4)

1. Akademiya stroitel'stva i arkhitektury SSSR, Moscow. Institut
organizatsii, mekhanizatsii i tekhnicheskoi pomoshchi stroitel'stva.
2. Nauchno-issledovatel'skiy institut zhelezobetona Glavmosprom-
stroymaterialov (for Khrustalev).

(Sand)

(Hydraulic machinery)

KHRUSTALEV, M.I., kand.tekhn.nauk

Hydraulic design of vertical classifiers with a rising flow of
clear water. Sbor. trud. NIIZHelezobetona no.3:50-68 '60.
(MIRA 15:2)

(Mineralogy--Classification)

KORNEV, N.V., inzh.; KHRUSTALEV, M.I., kand.tekhn.nauk

Comparative tests of hydraulic sand and hydroseparators. Sbor. trud.
VNII Nerud no.2:20-36 '62. (MIRA 16:3)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut nerudnykh stroitel'-
nykh materialov i gidromekhanizatsii (for Kornev). 2. Gosudarstvennyy
nauchno-issledovatel'skiy institut zhelezobetonnykh izdeliy, stroitel'-
nykh i nerudnykh materialov (for Khrustalev).

(Separators, (Machines)—Testing)

(Sand and gravel plants—Equipment and supplies)

VOLKOV, Valentin Georgiyevich, inzh.; YELSHIN, Igor' Mikhaylovich,
kand. tekhn. nauk; KHARIN, Arnol'd Ivanovich, kand. tekhn.
nauk; KHRUSTALEV, Mikhail Ivanovich, kand. tekhn. nauk;
GUREVICH, E.A., red.

[Enriching and fractionating natural sand for concrete by
the hydraulic method] Obogashchenie i fraktsionirovanie
prirodnykh peskov dlia betona gidravlicheskim sposobom.
Moskva, Stroizdat, 1964. 162 p. (MIRA 18:1)

TSAREVSKIY, A.M., kand.tekhn.nauk; MATKOVSKIY, K.A., inzh.; KHRUSTALEV, M.I.,
kand.tekhn.nauk

Hydrocyclone, its use and hydraulic calculations. Gidr. i mel. 17
no.4:12-20 Ap '65. (MIRA 18:5)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut gidrotekhniki
i melioratsii imeni A.N.Kostyakova (for TSarevskiy, Matkovskiy).
2. TS...-...l'... nauchno-issledovatel'skiy institut transportnogo

KHRUSTALEV, M.N.

Mass production of gaskets for pipes. Vod. i san.tekh. no.10:
36-37 O '56. (MLRA 10:2)

(Gaskets)

KHRUSTALEV, M.V., deputat Verkhovnogo Soveta Belorusskoy SSR

Everything for mankind. Zhil.-kom. khoz. 11 no.12:4 D '61.
(MIRA 16:11)

1. Pervyy sekretar' Gomel'skogo gorodskogo komiteta Kommunisticheskoy partii Sovetskogo Soyuza.

REPIN, Anatoliy Aleksandrovich; KHRUSTALEV, Nikolay Vladimirovich;
KEM, Aleksandr Yegorovich; SVET, Ye.B., red.; KUZNETSOVA,
O.Ya., tekhn. red.

[Anticorrosive acid-resistant materials and coatings in
industrial construction in the Urals] Antikorroziinye
kislotoupornye materialy i pokrytiia v promyshlennom
stroitel'stve Urala. Cheliabinsk, Cheliabinskoe knizh-
noe izd-vo, 1963. 154 p. (MIRA 17:1)

(Ural Mountain region--Industrial buildings)

(Corrosion-resistant materials)

(Protective coatings)

KHRUSTALEV, N. Ya.

20685. Nichiporovich, A.A. i Khrustalev, N. Ya. O raschete ustoychivostii plotin na
neskal'nykh osnovaniyakh - Gidrotekhn. stroit-vo, 1949, No. 6, s. 6-11

SO: LETOPIS ZHURNAL STATEY - Vol. 28, Moskva, 1949

KUPUST'LEV, N. Ya.

NICHIPOROVICH, A. A., professor; KHUSTALEV, N. Ya., kandidat tekhnicheskikh
nauk; LAGAR'KOV, N. I., inzhener, nauchnyy redaktor; SAFONOV, P. V.,
redaktor izdatel'stva; PERSON, M. N., tekhnicheskiy redaktor

[Strength of concrete hydraulic structures built on rockless soils]
Ustoichivost' betonnykh vodopodporykh sooruzhenii na neskol'nykh
gruntakh. Moskva, Gos.izd-vo lit-ry po stroit. i arkhit., 1957.
189 p.

(MLRA 10:10)

(Concrete construction)

KHRUSTALEV, N.Ya., kand.tekhn.nauk

Study of the effect of vibrated loads on the resistance to
displacement of water works constructed on sandy soil. Trudy
Lab. gindr.sooruzh. VODGEO no. 4:124-152 '63. (MIRA 17:6)

24.3600 (1144, 1385, 1482)

29296 S/051/61/011/004/001/004
E032/E514

AUTHORS: Zastavenko, L.G. and Khrustalev, O.A.

TITLE: Application of the interference of quantum levels
to the determination of the lifetimes of optical
transitions

PERIODICAL: Optika i spektroskopiya, v.11, no.4, 1961, 441-444

TEXT: The authors discuss the determination of the natural
level width from the measured intensity of resonance scattering of
light through a given angle as a function of external fields
applied to the scattering medium. Two cases are considered,
namely 1) electric and magnetic fields parallel, and 2) the case
where the excited state levels of the scattering atom are split by
the interaction between the electrons and the nuclear spin, and the
scattering system is located in an external magnetic field.
In the absence of external fields the differential scattering
cross-section is given by

$$W = \left| \sum_{m=-j}^j A_m \right|^2$$

(1) *✓*

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Application of the interference ... S/051/61/011/004/001/004
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where j is the angular momentum, m is its z-component and A_m is the resonance scattering amplitude. In a strong magnetic field each term splits into $2j + 1$ levels, which are located symmetrically relative to the level $m = 0$. Here the cross-section is given by

$$W = \sum_{m=-j}^j |A_m|^2 \quad (3)$$

If in addition a magnetic field is applied in the direction of the z-axis, the levels with z-components m and $-m$ are equally shifted and the fields can be chosen so that some of the levels with different m will coincide, i.e. $E_{m_1} = E_{m_2}$ when $m_1 \neq m_2$.

This will give rise to interference so that the cross-section becomes

$$W = |A_{m_1} + A_{m_2}|^2 - |A_{m_1}|^2 - |A_{m_2}|^2 + \sum_{m=-j}^j |A_m|^2 \quad (4) \quad \times$$

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 Application of the interference ... S/051/61/011/004/001/004
 E032/E514

With a constant electric field, the curve representing the resonance scattering as a function of the magnetic field consists of horizontal sections with narrow extrema corresponding to the partial overlap of levels with different m (Ref.2: L. G. Zastavenko, M.I. Podgoretskiy, ZhETF, 39, 1023, 1960). In the simple case where only two levels with energies E_1 and E_2 interfere, the intensity of the scattered light in the neighbourhood of these extrema is given by

$$\frac{W}{W_0} = 1 + \frac{2\text{Re}(AB^*) - 2\text{Im}}{W_0 \left\{ 1 + \left[\frac{\tau(E_1 - E_2)}{h} \right]^2 \right\}} \frac{(AB^*)\tau(E_1 - E_2)}{h}$$

where W_0 is the intensity well away from the extremum and A and B depend on the properties of the levels, the polarization of the light and the angle of scattering. For given angles and polarizations, the quantities A and B have the same phase and

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the intensity near an extremum is given by

$$\frac{W}{W_0} = 1 + \frac{2 |AB|}{W_0 \left[1 + \frac{\tau^2 (E_1 - E_2)^2}{h^2} \right]} \quad (6)$$

The width of this curve depends solely on the natural width of the line and the g-factor. It follows that it can be used to determine the lifetime τ . Moreover, it can be shown that the situation is not affected by the Doppler frequency shift due to the motion of the atoms. The second of the above two cases is not discussed in its general form although a formula is derived for the special case of five coincident levels when $H \rightarrow 0$. There are 1 figure and 4 references: 3 Soviet and 1 non-Soviet. The English-language reference reads as follows: Ref. 3: F.D. Colegrove, P.A. Franken, R.R. Lewis and R.N. Sands, Phys. Rev. Lettr., 3, 420, 1959. The work was done on the initiative of M. I. Podgoretskiy.

SUBMITTED: December 3, 1960

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35563
S/056/62/042/003/019/049
B102/B138

24.6610

AUTHORS: Okonov, E. O., Podgoretskiy, M. I., Khrustalev, O. A.

TITLE: Gravitational masses of K^0 and \bar{K}^0 mesons

PERIODICAL: Zhurnal eksperimental'noy i teoreticheskoy fiziki, v. 42,
no. 3, 1962, 770 - 771

TEXT: In connection with the problem of "antigravitation" an experiment
is considered to determine the up - down deviation of K^0 and \bar{K}^0 mesons
contained in a horizontal K_2^0 meson beam. Such a deviation of the order of

magnitude of de-Broglie wavelength should exist if the gravitational mass
of K^0 is negative. Estimates of the possible effects show, however, that
they are too weak to be detectable. E. g. for the inert mass ratio

$|M(K^0) - M(\bar{K}^0)| / M \leq 10^{-17}$ is obtained. D. I. Blokhintsev, V. I. Veksler, V.
A. Nikitin, V. I. Ogryevetskiy, L. B. Okun', B. M. Pontekorvo, Ya. A.
Smorodinskiy and I. Ye. Tamm are thanked for discussions. There are 10
references: 5 Soviet and 5 non-Soviet. The four most recent references
to English-language publications read as follows: L. Schiff. Proc. Nat.

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S/056/62/042/003/019/049
B102/B138

Gravitational masses ...

Acad. Sci. 45, 69, 1959; M. Good. Phys. Rev. 121, 311, 1961; M. Bardon et al. Phys. Rev. 110, 780, 1958; D. Neagy et al. Proc. of the 1960 Ann. Int. Conf. on High Energy Phys. at Rochester., Univ. of Rochester, 1960, p. 603.

ASSOCIATION: Ob"yedinennyj institut yadernykh issledovaniy (Joint Institute of Nuclear Research))

SUBMITTED: January 10, 1961

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PODGORETSKIY, M.I.; KHRUSTALEV, O.A.

Interference phenomena in quantum transitions. Usp. fiz. nauk 81
no.2:217-247 O '63. (MIRA 16:12)

S/056/63/044/002/056/065
B163/B186

AUTHORS: Solov'yev, L. D., Khrustalev, O. A.

TITLE: Infrared singularities and Regge trajectories in electrodynamics

PERIODICAL: Zhurnal eksperimental'noy i teoreticheskoy fiziki, v. 44, no. 2, 1963, 758-760

TEXT: The consequence of a dispersion relation (L.D. Solov'yev, ZhETF, 44, 306, 1963) for photon-electron scattering over a Regge trajectory for the electron-positron-interaction is discussed theoretically along with a generalization of this consequence for the case of particles with unequal masses. The matrix element M_λ for photon-electron scattering,

which results from inserting a photon "mass" $\sqrt{\lambda}$ into the Green photon function, can be written $M_\lambda = \exp [F(t)] M$, where

$$F((p' - p)^2) = \frac{ia}{8\pi^2} \int \frac{dk}{k^2 - \lambda} \left(\frac{2p' - k}{2p'k - k^2} - \frac{2p - k}{2pk - k^2} \right)^2. \quad (2)$$

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Infrared peculiarities and Regge ...

$$M = \sum_{b=s, u} \frac{A_b}{b-m^2} \exp \left[\beta(t) \ln \frac{m^2-b}{m^2} + \gamma(t) \right] + M_a, \quad (3)$$

$$\beta(t) = \frac{\alpha}{\pi} t \int_{4m^2}^{\infty} \frac{t'-2m^2}{\sqrt{t'(t'-4m^2)}} \frac{dt'}{t'(t'-t-16)} \quad (4)$$

In these equations, s , u , and t denote the Mandelstam variables for the direct, crossed and third channel, respectively, and α is the fine structure constant. The first term in equation (3) is for large s a term of the Regge type with an exponent $\alpha(t) = -1 + \beta(t)$, which is represented in the figure. The Regge equation $\alpha(t) = 1$; $t = 0, 1, 2, \dots$ determines bound states in the t -channel, i.e. the electron-positron system. It has solutions only for $0 < t < 4m^2$ where

$$\alpha(t) = -1 + \frac{\alpha}{\pi} \left[1 + \frac{2t-4m^2}{\sqrt{t(4m^2-t)}} \operatorname{arctg} \sqrt{\frac{t}{4m^2-t}} \right] \quad (7)$$

These results are generalized for the case of particles with unequal

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Infrared peculiarities and Regge . . .

masses using dimensional analysis. If a particle with charge ze , mass m and initial and final momenta p and p' reacts with a particle correspondingly characterized by Ze , M , P , and P' , the bound states of these particles are found by studying the asymptotic behavior of the scattering matrix element M_λ for $t \rightarrow \infty$, which must contain a term $t^{-1}(t/\lambda)^\beta(s)$.

Thus, in order to determine $\beta(s)$, it is sufficient to consider the infrared peculiarities of M_λ . From this, the Regge exponent $\alpha(s)$ is derived, which is equal to

$$\alpha(s) = -1 + \frac{\alpha}{\pi} \left[1 + 2 \frac{s - m^2 - M^2}{\sqrt{s} - k(s)} \operatorname{arctg} \frac{s - (m - M)^2}{\sqrt{s} - k(s)} \right]. \quad (14)$$

if $(m - M)^2 \ll s \ll (m + M)^2$. Thus the principal Regge trajectory can be obtained, taking into account linear terms in α which enables a description of the Coulomb interaction. There is 1 figure.

ASSOCIATION: Ob"yedinennyi institut yadernykh issledovaniy (Joint Institute of Nuclear Research)

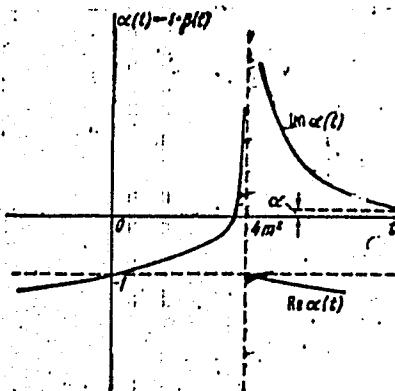
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Infrared peculiarities and Regge ...

S/056/63/044/002/056/065
B163/B186

SUBMITTED: November 16, 1962

Fig.



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ACCESSION NR: AP4025941

8/0056/64/046/003/1079/1089

AUTHOR: Logunov, A. A.; Nguyen, Van Kh'yeu; Todorov, I. T.;
Khrustalev, O. A.

TITLE: Asymptotic relations between cross sections in local field theory

SOURCE: Zhurnal eksperimental'noy i teoreticheskoy fiziki, v. 46,
no. 3, 1964, 1079-1089

TOPIC TAGS: local field theory, cross section, asymptotic cross section relations, Phragmen Lindelof theorem, Pomeranchuk theorem, antiparticle, neutral pion scattering, kaon scattering, pion proton scattering, kaon proton scattering

ABSTRACT: It is shown that, by starting from the Phragmen-Lindelof theorem and using the general principles of relativistic local quantum field theory, several asymptotic relations can be established

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not only between the total cross sections of various processes but also their differential cross sections. Starting with the related processes of scattering of scalar particles

$$a_1 + b_1 \rightarrow a_2 + b_2 \quad (I)$$

$$\bar{a}_2 + b_1 \rightarrow \bar{a}_1 + b_2 \quad (II)$$

(the bar denotes the antiparticle), the asymptotic properties of the scattering amplitude are derived under certain assumptions and, in particular, the Pomeranchuk theorem is obtained for this case. The method is then extended to include the case when the particles b have spin 1/2 while the particles a have spin zero and to process which are described in the e^2 approximation in terms of electromagnetic form factors. All the deductions are based on the assumption that the cross sections do not oscillate at high energies. It is con-

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ACCESSION NR: AP4025941

cluded that the differential cross sections of processes (I) and (II) are asymptotically equal, that the total cross sections of interaction of particles and antiparticles are equal if the forward elastic scattering amplitude does not grow too rapidly, that the forward differential scattering cross section is proportional to the square of the total cross section in the case of scattering of neutral pions or kaons by protons, and that the limiting values of the form factor are equal when the momentum transfer (t) becomes infinite. "In conclusion the authors are deeply grateful to N. N. Bogolyubov for interest in the work and for stimulating discussion, and also to S. M. Bilen'kiy, D. I. Blokhintsev, V. S. Vladimirov, M. A. Markov, N. N. Meyman, Kh. Ya. Khristov, and P. Suranyi for useful remarks." Orig. art. has: 43 formulas.

ASSOCIATION: Ob"yedinennoy institut yadernykh issledovaniy (Joint Institute of Nuclear Research)

Card 3/4

ACCESSION NR: AP4031148

S/0056/64/046/004/1266/1280

AUTHORS: Arbuzov, B. A.; Logunov, A. A.; Filippov, A. T.; Khrustalev, O. A.

TITLE: The Fredholm method in the relativistic scattering problem

SOURCE: Zh. eksper. i teor. fiz., v. 46, no. 4, 1964, 1266-1280

TOPIC TAGS: particle scattering, relativistic particle, particle spin, Fredholm method, Regge pole, asymptotic property

ABSTRACT: The investigation of the analytic properties and asymptotic form of the amplitudes for elastic scattering of two spinless particles with equal masses, obtained from solutions found by the Fredholm method, are described. The motivation is to develop a method for studying the analytic properties of the scattering amplitude and its asymptotic behavior as a function of the cosine of the scattering angle in the c.m.s. directly, without assuming the exis-

Card 1/3

ACCESSION NR: AP4031148

tence of a Mandelstam representation. The problem is treated over a restricted energy range but with arbitrary momentum transfer. The scattering amplitude and the bound states of the particles are described by a Schrodinger-type equation with a generalized complex potential. The analytic properties of the scattering amplitude are studied as a function of the complex energy (or momentum) and angular momentum. The asymptotic form of the partial amplitude is found and it is shown that a transition to the total amplitude is possible by using the Watson-Sommerfeld transformation. The analyticity of the total amplitude as a function of momentum transfer is demonstrated, and conditions for the Regge asymptotic behavior at infinite momentum or angular momentum are formulated. Some of the results which can be gained from the investigation are discussed in the conclusion. "The authors are sincerely grateful to Academician N. N. Bogolyubov for stimulating discussions and also to O. I. Zav'yalov and M. K. Polivanov for valuable information." Orig. art. has: 3 figures and 20 formulas.

Card 2/3

ACCESSION NR: AP4031148

ASSOCIATION: Ob"yedinenny"y institut yaderny"kh issledovaniy (Joint
Institute of Nuclear Research)

SUBMITTED: 20Jul63

DATE ACQ: 07May64

ENCL: 00

SUB CODE: NP

NR REF SOV: 008

OTHER: 011

Card 3/3

KHRUSTALEV, P.

"On American Airfields. Tr. from the Russian. (to be contd.)", P. 334,
(KRIDLÁ VLASTI, Vol. 4, No. 14, July 1954, Praha, Czechoslovakia)

SO: Monthly List of East European Accessions, (EEAL), LC, Vol. 4, No. 1,
Jan. 1955, Uncl.

KHRUSTALEV, P.

"Polish Aircraft; the Zuch, Successor of the Junak", P. (3) of cover,
(KRIDLA VLASTI, Vol. 4, No. 17, Aug. 1954, Praha, Czechoslovakia)

SO: Monthly List of East European Accessions, (EEAL), IC, Vol. 4,
No. 1, Jan. 1955, Uncl.

LYUBIMOV, V.A., inzh.; Prinimali uchastiye: GULYAYEVA, R., laborant;
YEVDOKIMOVA, V., laborant; KHRUSTALEV, P., rabotnik; ZHUKOV,
V., rabotnik; CHUMAKOV, M., rabotnik

Automatic AT2-250-Sh loom for woolen fabrics. Nauch.-issl.
trudy TSNIIshersti no.17:76-85 '62. (MIRA 17:12)

1. TSentral'nyy nauchno-issledovatel'skiy institut sherstyanoy
promyshlennosti (for Gulyayeva, Yevdokimova). 2. Shuyskiy
mashinostroitel'nyy zavod (for Chumakov).

AKIMOV, T. S., KHRUSTALEV. P. F.

LOOMS

Varied movement of the warp roller. Tekst. prom. 12 no. 7, 1952.

Monthly List of Russian Accessions. Library of Congress. October 1952. UNCLASSIFIED.

ZHAROVA, Ye.I.; PROTASOVA, T.G.; KHRUSTALEV, S.A.; PREOBRACHENSKAYA, M.N.;
SUVOРОV, N.N.; RAUSHENBAKH, M.O.

Leukemogenic (blastomogenic) properties of some compounds of
the indole series. Report No.2. Probl. gemat. i perel. krovi.
no.6:38-42 '65. (MIRA 18:11)

1. TSentral'nyy ordena Lenina institut gematologii i perelivaniya
krovi (dir. - dotsent A.Ye.Kiselev) Ministerstva zdravookhraneniya
SSSR, i Vsesoyuznyy nauchno-issledovatel'skiy khimiko-farmatsevti-
cheskiy institut (dir. - prof. M.K.Rubtsov), Moskva.

TSESSARSKAYA, T.P.; OSECHENSKAYA, G.V.; KHRUSTALEV, S.A.

Chromosome changes in leukemia. Report No.1: Chronic myeloid leukemia. Probl. gemat. i perel. krovi 9 no.1:3-10 Ja '64.
(MIRA 18:1)

1. Radiobiologicheskaya laboratoriya (zav. - prof. M.O. Rau-shenbakh) i hematologicheskaya klinika (zav. - prof. M.S. Dul'tsin) TSentral'nogo ordena Lenina instituta hematologii i perelivaniya krovi (direktor - dotsent A.Ye. Kiselev).

TSESSARSAYA, T.P.; OSECHENSKAYA, G.V.; KHRUSTALEV, S.E.

Chromosome changes in leukemia in man. Acute leukemia. Report
No.2. Probl. gemat. i perel. krovi 9 no.6:10-15 Je '64.

(MIRA 18:2)

1. TSentral'nyy ordena Lenina institut gematologii i perelivaniya
krovi (dir.- dotsent A.Ye. Kiselev) Ministerstva zdravookhraneniya
SSSR, Moskva.

KHRUSTALEV, S.A.

Karyological studies in mouse leukemias. Probl. gemat. i perel.
krovi 8 no.11:26-29 N '63. (MIRA 17:12)

1. Iz radiobiologicheskoy laboratorii (zav.-- prof. M.O. Raushenbakh)
TSentral'nogo ordena Lenina instituta gematologii i perelivaniya
krovi (dirketo r dotsent A.Ye. Kiselev).

KHRUSTALEV, S. I., Cand Med Sci -- (diss) "Effect of preparations of
darkening pasqueflower (*Pulsatilla*) upon ^{the} _{reflex} activity of the orga-
nism." Dnepropetrovsk, 1957. 12 pp (Min of Health UkrSSR, Dnepropetrovsk
Med Inst), 200 copies (KL, 16-58, 124)

-119-

BATRAK, G.Ye., LINENKO, V.I., KHRUSTALEV, S.I.

Method for implanting electrodes. Fiziol, zhur. 44 no.10:1001-1003
0 '58 (MIRA 12:1)

1. From the department of pharmacology, Medical Institute,
Dnepropetrovsk.
(PHYSIOLOGY,
implantation of electrodes (Rus))

BATRAK, G.Ye.; FURS, I.T.; KHRUSTALEV, S.I.

Pharmacological properties of *Pulsatilla nigricans*. Farm. i toks.. 22
no.4:320-324 Jl-~~Ag~~ '59. (MIRA 13:1)

1. Kafedra farmakologii (zav. - prof. G.Ye. Batrak) Dnepropetrovskogo
meditsinskogo instituta.
(PLANTS, MEDICINAL pharmacol.)

KHRUSTALEV, S.I.

Comparative lability of neuromuscular synapses. Farm. i toks. 25
no.1:88-93 Ja-F '62. (MIRA 15:4)

1. Kafedra farmakologii (zav. -- prof. G. Ye. Batrak) Dnepropetrovskogo
meditsinskogo instituta.
(MUSCLES....INNERVATION)

KHRUSTALEV, S.I.

Lability of neuromuscular synapses of the gastrocnemius and
diaphragm muscles in dogs in ontogenesis. Farm. i toks. 25
no. 58559-564 S-0 '62 (MIRA 18:t1.)

1. Kafedra farmakologii (zav. - doktor med. nauk prof.
G. Ye. Batrak) Dnepropetrovskogo meditsinskogo instituta.

REF ID: A5017360

UR/0239/64 050/011/1364/1372

AUTHOR: Khrustalev, S. I.

TITLE: Comparative reactivity of nerve-muscle synapses in various animals

JOURNAL: Fiziologicheskiy zhurnal SSSR, v. 50, no. 11, 1964, 1364-1372

KEY WORDS: experiment animal, nervous system, neurology, muscle physiology, electromyography

The inability of myoneural synapses of the calf muscle of dogs, cats, and frogs was determined by recording the electrical response of the muscle to the application of currents of different frequencies. The frequency at which the response disappeared was noted. The frequency at which this manner of test was applied in the experiments was 100 Hz. A correlation between the frequency of the current and the relative amplitude of the polarizing effect of depolarization was found. For instance, in the frog there was a definite correlation between the resistance of the muscle and the ability of different frequencies to polarize it to the same extent. This was established by determining the action of depolarization on synapses of the leg muscle and chest muscles of pigeons, which have a different inability. Orig. art. has 4 figures and 3 tables.

Card 1/2

L 58463-65

ACCESSION NR: AP5017360

ASSOCIATION: Kafedra farmakologii meditsinskogo instituta, Dnepropetrovsk
(Department of Pharmacology, Medical Institute)

SUBMITTED: 15Jul63

ENCL: 00

SUB CODE: LS

NO REF Sov: 009

OTHER: 000

JPRS

Card 2/2

KHRUSTALEV, S. S.

KREMLEV, V. P., Inzhener i KHRUSTALEV, S. S., Kand. Tekhn. nauk St. Nauchno. Sotr. i BOZHENOV, P. I., Kand. Tekhn. nauk i VASIL'KOVSKIY, S. V., Laureat Stalinskoy Premii Prof. Leningradskiy filial Akademii arkhitektury SSSR.

PREDLOZHENIYA PO ISPOL'ZOVANIYU ESTESTVENNOGO GIPSOVOGO KAMIYA Dlya NARY-ZHNYKH OBLITSOVOK.

page 94

SO: Collection of Annotations of Scientific Research Work on Construction, completed in 1950. Moscow, 1951

XHRUSTALEV, S.S.; RAYLYAN, V.F., professor, redaktor.

[Using gypseous stone for building facings] Применение гипсового камня для
отделки зданий. Под ред. В.Ф.Райляна. Ленинград, Гос.изд-во лит-ры по
строителству и архитектуре, 1953. 41 п. (MIRA 6:12)
(Gypsum) (Façades)

KRUSTALEV, S. S.

AID P - 3738

Subject : USSR/Chemistry
Card 1/1 Pub. 152 - 2/22
Authors : Krustalev, S. S., M. G. Voronkov, and B. N. Dolgov
Title : Increase in the water resistance of native gypsum.
Part II.
Periodical : Zhur. prikl. khim. 28, 9, 916-921, 1955
Abstract : By immersing gypsum (3 varieties) in ethyl silicate for several hours, the hydrophobic properties of gypsum were increased, one variety, 7-10 and two varieties 3 times. By treating gypsum with methylchlorosilane, the hydrophobic properties of gypsum were increased 5-10 times. Five tables, 8 references, 4 Russian (1943-1953).
Institution : None
Submitted : 0 21, 1953

KHRUSTALEV, Sergey Serapionovich; TSYGANOV, B.Ya., inzh., retsenzent;
LOMONOSOV, I.G., st. nauchn. sotr., retsenzent; SATIN, M.S.,
st. nauchn. sotr., otv. red.; BEZGOBOVA, L.V., red.

[Building. Building materials; a textbook for students of the
faculties of Forestry Engineering, the Mechanical Technology
of Wood, Forest Management, Chemical Technology, and Engineer-
ing Economics] Stroitel'noe delo. Stroitel'nye materialy;
uchebnoe posobie dlia studentov fakul'teta lesoinzhenernogo,
mekhanicheskoi tekhnologii drevesiny, lesokhoziaistvennogo,
khimiko-tehnologicheskogo, inzhenerno-ekonomiceskogo. Lenin-
grad, Vses. zaochnyi lesotekhn. in-t, 1964. 71 p.

(MIRA 18:7)

L 01286-66 EWT(1)/EWT(m)/EPF(c)/EWP(j)/T/EWP(t)/EWP(b)/EWA(h) IJP(c)/RPL
JD/WW/GS/AT RM

ACCESSION NR: AT5020453

UR/0000/64/000/000/0087/0104

AUTHOR: Krctova, N. A.; Sokolina, G. A.; Khrustalev, Yu. A.; Agranenko, N. P. 44,55 44,55 44,55 89
Lomova, N. F.; Khomutov, A. M. 44,56 44,56 44,56 80

B1

TITLE: Change in the surface state of germanium during the formation of an adhesion bond with a polymer

SOURCE: Mezhvuzovskaya nauchno-tehnicheskaya konferentsiya po fizike poluprovodnikov (poverkhnostnyye i kontaktnyye yavleniya). Tomsk, 1962. Poverkhnostnyye i kontaktnyye yavleniya v poluprovodnikakh (Surface and contact phenomena in semiconductors). Tomsk, Izd-vo Tomskogo univ., 1964, 87-104

TOPIC TAGS: polymer, semiconductor research, protective coating, surface property, crystal surface, lacquer/ LVS-31 lacquer, MBK-1 lacquer

ABSTRACT: The authors study the effect which the functional groups in a polymer have on the surface state of germanium in connection with the use of organic polymer materials for protecting semiconductor devices from atmospheric action. The field effect method was used for experimentally studying the surface conductivity with the application of a constant field. The slow changes in conductivity with time were

Card 1/6

L 01286-66

ACCESSION NR: AT5020453

6

recorded. The material studied was *n*-germanium with a resistivity of 40 $\Omega \cdot \text{cm}$ and a diffusion length of 2.5 mm. The specimen was a plate with dimensions of 20 x 5 x 5 mm cut from a single crystal of germanium parallel to plane (111). Ohmic contacts were fused to the ends of the specimen. The sample was etched in a peroxide-alkali mixture. The surface conductivity is shown as a function of time in fig. 1 of the Enclosure. Typical curves for conductivity in the field effect for high resistance *n*-germanium are given in fig. 2 of the Enclosure. These curves may be given as $\Delta\sigma = f(U)$ or as $\Delta\sigma = \phi(Q)$, if Q is the induced charge of a condenser determined from the capacity. Here $\Delta\sigma$ indicates the change in surface conductivity, and U gives the potential. Polymers of the vinyl series were studied with regard to the effect of the nature of functional groups and their concentration in the chain of a copolymer on the shape of $\Delta\sigma = \phi(Q)$ curves plotted from measurements in vacuum. The results are shown in fig. 3 of the Enclosure. Curves are also given for copolymers of methyl-methacrylate with methacrylic acid, for a gelatin-germanium interface (where the gelatin has functional radicals NH₂, OH and COOH) and for polyhydroxyethylene--a polymer which has no functional polar radicals and which has oxygen bound by single bonds in the chains. A comparison of the curves indicates that functional radicals change the position of $\Delta\sigma^{\text{min}}$ noticeably, while polymers without strongly polar groups have little effect on this parameter. Compositions of polymers were studied

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L 01286-66

ACCESSION NR: AT5020453

along with individual polymers. It was found that two industrial lacquers, MBK-1 and LVS-31, offer more protection against moisture than do the individual polymers. However, the lacquer films are much thicker than the individual polymer films. It is shown that LVS-31 has a few advantages over MBK-1 as a protective film for semiconductor devices. Orig. art. has: 13 figures, 6 tables.

ASSOCIATION: none

SUBMITTED: 06Oct64

ENCL: 03

SUB CODE: SS, MT

NO REF Sov: 006

OTHER: 005

Card 3/6

L 01286-66

ACCESSION NR: AT5020453

ENCLOSURE: 01

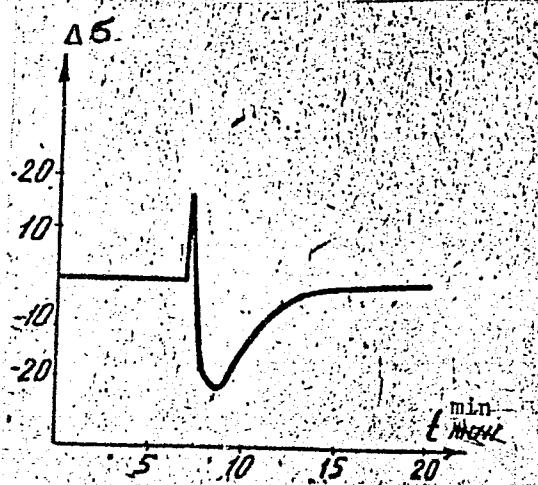


Fig. 1. Change in surface conductivity with time

Card 4/6

L 01286-66

ACCESSION NR: AT5020453

ENCLOSURE: 02

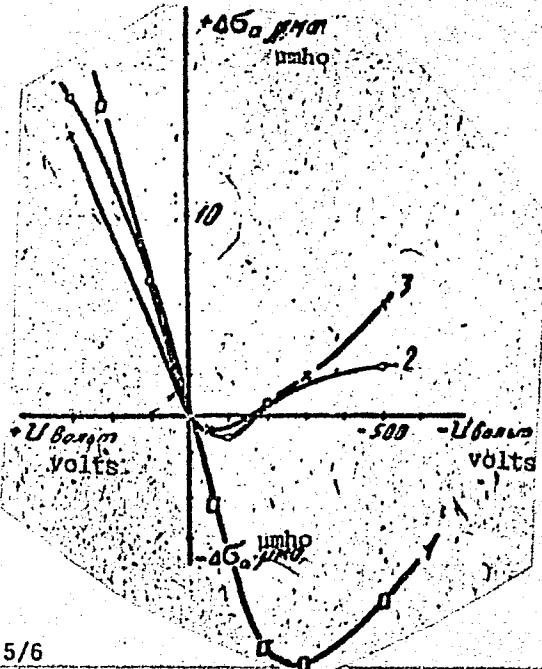


Fig. 2. Ac in field effect for high-resistance n-germanium

Card 5/6

44546

S/020/62/147/006/031/034

B144/B186

247750

AUTHORS: Sokolina, G. A., Krotova, N. A., Khrustalev, Yu. A.

TITLE: Study of the properties of a polymer-semiconductor interface

PERIODICAL: Akademiya nauk SSSR. Doklady, v. 147, no. 6, 1962, 1409-1412

TEXT: The adsorption process occurring at polymer-semiconductor interfaces was investigated by measuring the surface conductivity in the "field effect". The sample used was n-type germanium with a resistivity of 40 ohm·cm and a diffusion length of 2.5 mm etched in a H_2O_2 -alkali mixture and coated with films of linear vinyl-type polymers or methylmethacrylate-methacrylic acid copolymers. The field applied had a strength of 10^6 v/cm. First, the surface conductivity was measured in a sample of uncoated Ge: here the $\Delta\sigma$ -versus-time curve showed a sharp rise when the field was applied, followed quickly by the minimum and returning then to the initial value. On Ge, two surface states were observed: the "fast" states at the Ge oxide - Ge interface and the "slow" states at the external face of the oxide or in the oxide. These slow surface states characterizing the adsorption and adhesion processes were studied by applying a constant

Card 1/2

Study of the properties of a ...

S/020/62/147/006/031/034
B144/B186

voltage. Control studies of the semiconductor-air interface revealed the positive charge of the surface. The effect of the polymer films on the surface conductivity depended on the nature and concentration of the functional groups. An increase in the concentration of the COOH groups, which are electron-donors, changed the amount and the sign of the bending of the bands and also the quantity and the sign of the charge resulting from the adhesion bond between semiconductor and polymer. The experimental data were compared with those calculated from known theories. The importance of these investigations for the coating of semiconductors is stressed. There are 4 figures.

ASSOCIATION: Institut fizicheskoy khimii Akademii nauk SSSR (Institute of Chemical Physics of the Academy of Sciences USSR)

PRESENTED: July 19, 1962, by P. A. Rebinder, Academician

SUBMITTED: July 16, 1962

Card 2/2

DEMIN, V.M.; KHRUSTALEV, Yu.P.

Some characteristics of the early history of the Sea of Azov.
Okeanologija 4 no.5:850-855 '64 (MIRA 18:1)

1. Rostovskiy-na-Donu gosudarstvenny universitet.

L 44323-66 EWT(1) GW

ACC NR: AP6020984 (N) SOURCE CODE: UR/0213/66/006/003/0451/0457

AUTHOR: Mamykina, V. A.; Khrustalev, Yu. P.

ORG: none

TITLE: Processes of abrasion and deposition in recent sedimentation,
using the Sea of Azov as an example

SOURCE: Okeanologiya, v. 6, no. 3, 1966, 451-457.

TOPIC TAGS: physical oceanography, oceanic sedimentation, oceanic
deposit, ~~bottom deposit~~, shoreline erosion, ~~bottom erosion~~ABSTRACT: Two organizations, the Rostov-on-Don State University
(1959-1963) and the Institute of Oceanography, AS USSR (1939-1961) have
investigated core samples taken from the bottom sediments of the Sea of Azov. The thicknesses, grain-size, and composition of the most recent and contemporary deposits were analyzed specifically to determine rates and locations of erosion and deposition. Results obtained were compared with information obtained from bathymetric charts of the area, which incorporated information collected during the 1803-1956 period. Rates of recent epeirogenic movements were determined by geological and geomorphological methods and were checked against repeated leveling measurements. The area was divided into three characteristic regions:

Card 1/2

UDC: 551.351(262.56)

Card 2/2 015

L 18834-66 EWT(1) GW

ACC NR: AP6004393

(N)

SOURCE CODE: UR/0020/66/166/003/0688/0690

AUTHOR: Panov, D. G.; Khrustalev, Yu. P.ORG: noneTITLE: Recent tectonic movements in the coast line and floor of the Sea of AzovSOURCE: AN SSSR. Doklady, v. 166, no. 3, 1966, 688-690TOPIC TAGS: tectonics, ocean floor topography

ABSTRACT: The literature on tectonic movements in the Azov area is reviewed and the following conclusions are presented: (1) the sinking of the coast line and the littoral portions of the floor belong to the last stage of the Quaternary; (2) this sinking has been taking place over the last 5000 years; (3) the sinking of the coast line and the Azov basin floor is recent; (4) the greatest part of the Taganrog Bay area and the northern part of the Sea of Azov to the west of it, are subject to movements at a rate of 2 to 3 mm per year; (5) the speed of the tectonic movement decreases to 1 to 2 mm per year along the coastal strip of the Taganrog Bay and near the northern sea coast; (6) the largest recent movements, up to 3 mm

UDC: 551.24(471.6)

Card 1/2

11

3

12.5>

2

L 18834-66

ACC NR: AP6004393

per year, predominate in the southern part of the sea; (7) the area of recent sinking in the Sea of Azov corresponds tectonically to the Kerch-Taman' pereclinal, alpine folding; and (8) the speed of recent tectonic movement in the Azov region indicates a significant tectonic factor in the development of the Sea of Azov during the Quaternary period. A detailed map of recent tectonic movements in the Azov basin is given. Presented by Academician I. P. Gerasimov on 31 July 1965. Orig. art. has: 1 figure.

SUB CODE: 08/ SUBM DATE: 31Jul65/ ORIG REF: 007/ OTH REF: 000

Card 2/2 vmb

KHRUSTALEVA, A.D. (Moscow).

Role of the nurse in caring for cancer patients in the hospital
and at home. Med.sestra no.1:20-22 Ja '54. (MLRA 7:1)

1. Meditsinskaya sestra gorodskoy bol'nitsy No.34.
(Cancer) (Nurses and nursing)

BABAK, V.S., ZALOZH, P.K., KHRUSTALEVA, F. YE.

Viticulture - Izmail Province

Our methods of caring for vineyards. Vin. SSSR no. 4, 1952

Monthly List of Russian Accessions, Library of Congress, July 1952. UNCLASSIFIED.

S/189/61/000/006/005/005
D228/D304

AUTHORS: Dunayeva, K.M., Ippolitova, Ye.A. and Khrustaleva, G.D.

TITLE: Investigating the thermal stability of uranyl sulfate

PERIODICAL: Moscow. Universitet. Vestnik. Seriya II, khimiya, no. 6, 1961, 35-37

TEXT: In studying the thermal decomposition of uranyl sulfate the authors were primarily interested in ascertaining the temperature of dissociation of the anhydrous salt. The trihydrate was prepared by dissolving U_3O_8 in a solution of H_2SO_4 at 80° and evaporating the filtrate, when crystals containing 56.95% U and 8.04% S were obtained. On heating the $UO_2SO_4 \cdot 3H_2O$ the following changes were observed: the loss of 1 1/2 molecules

Card 1/2

KHRUSTALEVA G. F.

Country : USSR
Category: Human and Animal Physiology. Nervous System.
Cerebral Cortex

T

Abs Jour: RZhBiol., No 19, 1958, 89199

Author : Khrustaleva, G.F.

Inst : -

Title : Changes in the Electroencephalogram of the Female
Rabbit Under the Effect of Progesterone, Folliculin
and Following Castration

43

Orig Pub: Byul. Eksperim. biol. i meditsiny, 1957, No 1,
Appendix, 126-129.

Abstract: The administration to female rabbits of progesterone
(1-20 mgs of an oil solution) caused the appearance
in the EEG of slow waves and a decrease of motor

Card : 1/2

*Lab Normal + Pathological Physiology
Inst. Obstetrics + Gynecology AMN USSR*

T-88

KHRUSTALEVA, G.F.

Detection of anovulatory cycles by means of some function
tests. Akush. i gin. no.1:44-48 '63. (MIR 17:6)

1. Iz otdeleniya neoperativnoy ginekologii (zav. - prof. Ye.P. Mayzel') Instituta akusherstva i ginekologii (dir. - prof. M.A. Petrov-Maslakov) AMN SSSR.

<i>KHRUSTALEVA, I. V.</i>	
Country	: USSR
Category	: Farm Animals. General Problems.
Abs. Jour	: Ref Zhur-Biol., No 16, 1956, 73963
Author	: <u>Khrustaleva, I. V.</u>
Institut.	: Moscow Veterinary Academy.
Title	: Arterial Vessels of the Bicipital Shoulder Muscle in Domestic Animals.
Orig Pub.	: Tr. Mosk. vet. akad., 1956, 10, 261-279
Abstract	: In 23 horses, 18 heads of cattle, 10 pigs, and 14 dogs the bicipital muscle of the shoulder was investigated. It was established that the proximal sector of the muscle under investigation is less intensively supplied by the perimuscular medial shoulder artery than the distal sector which is vascularized by the arteries of the bicipital shoulder muscle. The arteries of the bicipital muscle in horses and dogs are relatively wider in diameter and shorter in length.
Card:	: 1/4

GUSEVA, L.A.; ZDANOVSKAYA, Ya.L.; KRIVOSHEINA, N.A.; KHRUSTALEVA, I.V.;
CHEBOTAREV, I.T.; DREVLYANSKAYA, N.I., red.; PROKOF'YEVA, L.N.,
tekhn. red.

[Manual for laboratory work in the anatomy of farm animals] Po-
sobie k prakticheskim zaniatiiam po anatomii sel'skokhoziaistven-
nykh zhivotnykh. Moakva, Sel'khozizdat, 1962. 170 p.

(MIRA 15:7)

(Veterinary anatomy)

KHRUSTALEVA, L.A.

Characteristics of salmonelloses in Perm. Zhur. mikrobiol., epid. i
immun. 41 no.11:122-125 '65. (MIRA 18:5)

1. Permskiy institut vaktsin i syvorotok.

MIRSKOVA, V.N.; GITTERMAN, L.A.; KHRUSTALEVA, L.A.; KALUGINA, L.V.

Bacterial pollution and pyrogenicity of diaferm-3 sera. Nauch. osn.
proizv. bakt. prep. 10:206-212 '61. (MIRA 18:7)

1. Permskiy institut vaktsin i syvorotok.

Method for obtaining polyester plasticizers for polyvinylchloride compo-^W

... only a two-step reaction.

polyvinylchloride, polyester

... and plastic products.

... and polyvinylchloride.

NO REF SCV: 000
Card 1/1

OTHER: 000

YORKIN, Peter Afanasyevich, prof., MOL'NIKOV, Nikolay
Alexandrovich, prof., DAREVSKIY, Aleksandr Isaevich,
distr., KUKHARKIN, Yevgeniy Stepanovich, distr.,
KHANISTALEVA, Nadezhda red.

[Theoretical principles of electrical engineering] Teore-
ticheskie osnovy elektritehniki. Moskva, Vysshiaia shkola,
1965. 733 p. (MIRA 18.15)

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